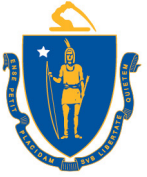


2017 TOP CRASH LOCATIONS REPORT

September 2020





Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



Dear Reader:

Enclosed is MassDOT Highway Division's edition of the 2017 *Top Crash Locations Report*, which may be used as a first brush tool to evaluate top crash intersection, bicycle and pedestrian locations in order to improve the safety of our roadway system. This report, like last year's report, focuses on intersection locations and is based on crashes entered into the Registry of Motor Vehicles' Crash Data System (CDS). This report also identifies the top bicycle-motor vehicle and pedestrian-motor vehicle crash locations. This information can be found at <http://services.massdot.state.ma.us/maptemplate/TopCrashLocations/> or by contacting your Regional Planning Agency and MassDOT Highway District Traffic Engineer.

This dataset may be used as a first brush screening tool to evaluate locations to improve the safety of our roadway system. The 2017 *Top Crash Locations Report* is one of the tools for the Statewide Highway Safety Improvement Program (HSIP) to identify safety projects using a data-driven process.

Please note that this report is based only on crash records that have been entered into CDS and have been geocoded to a specific location. Although Massachusetts General Laws Chapter 90 § 26 and 29 require drivers and police departments to file crash reports that exceed specific thresholds, this is not always done. Furthermore, not all crashes submitted to the Registry of Motor Vehicles get entered into CDS. Improving the crash reporting system and the quality of the data will help to focus resources where they are most needed.

In an effort to reduce injury and fatal crashes, MassDOT, in cooperation with a variety of public and private stakeholders, updated the Massachusetts Strategic Highway Safety Plan (SHSP) in December 2018. The Safety Plan identifies the State's key safety needs and can be used to guide investment decisions to achieve significant reductions in highway fatalities and serious injuries on all public roads based upon a data-driven process. To view the 2018 SHSP (or previous editions), download a copy of the plan or to learn more about it, go to the MassDOT Highway Division Traffic Engineering and Safety website <https://www.mass.gov/service-details/strategic-highway-safety-plan>

In 2019, MassDOT launched the IMPACT crash data portal which encourages public safety initiatives and awareness specific to crash information. Within IMPACT a user can engage with crash related data through easy to understand pre-built reports or conduct self-driven analysis.

<https://apps.impact.dot.state.ma.us/cdp/home>

I am convinced that we can make great strides in improving safety on Massachusetts roadways for all users. If you have questions, please contact Neil Boudreau, Assistant Administrator for Traffic and Safety, at (857) 368-9655.

Sincerely,

Jonathan Gulliver,
Highway Administrator

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TOP HIGH CRASH LOCATIONS REPORT

Top 200 Intersection Locations 2015-2017

Top Pedestrian Locations 2008-2017

Top Bicycle Locations 2008-2017

Introduction

MassDOT Highway Division obtains crash data from the MassDOT Registry of Motor Vehicles (RMV) Division and uses it for a number of purposes. The primary function is to provide a foundation for developing safety improvement projects. The Top High Crash Locations Report is one of the tools used in this process. Nine years ago, MassDOT Highway Division developed a report type where the locations identified were crash clusters at intersections (no grade separated locations, no locations with weaving sections and no intersections that are part of a rotary or interchange system) but identifying the locations that occurred at intersections was a manual process. Beginning seven years ago, the report also included the top bicycle and pedestrian clusters. This year, MassDOT Highway Division prepared a Top High Crash Locations Report which includes the top 200 high crash intersection locations using crash data from 2015-2017 and also includes the weighted (by crash severity) highest frequency bicycle-motor vehicle and pedestrian-motor vehicle crash locations for 2008-2017 however, the weighting factor has changed to be more consistent with Highway Safety Manual (<http://www.highwaysafetymanual.org>) methodologies. This is described below in more detail.

The RMV obtains crash data from State and local police. The RMV Crash Records Section collects, enters and maintains crash data records, which are the source of the MassDOT Highway Division crash data.

To produce this high crash locations listing, MassDOT Highway Division, developed an automated procedure for processing, standardizing, matching and aggregating the crash data by geographical location using Geographic Information System (GIS) tools and procedures.

Generally, the geocoding rate (the rate at which crashes can be located to a specific geographical point) for crashes between 2015 and 2017 is approximately 96%. However, the geocoding rate is not uniform for all crashes or for all types of crash locations. Some crashes may be more difficult to geocode because of multiple intersections between the same roadway names within a community, mis-entry of location information on the crash report form or a host of other reasons.

The number of crashes contained within the RMV crash system has changed dramatically due to a shift in data entry. Generally the crash system is comprised of crash reports from police and operators (drivers). The number of operator reports entered into the statewide crash system has declined dramatically. The table below illustrates the change in data entry at the RMV.

Report Source	2010	2011	2012	2013	2014	2015	2016	2017	Total
Operator	4,149	22	7	1	12	5	2		4,198
Campus police			5	5		9	12	14	45
Local police	94,458	104,201	104,316	105,647	109,805	116,245	120,089	121,498	876,259
MBTA police	131	117	134	81	94	104	68	17	746
Other	23	12	24	30	6	8		3	106
State police	16,882	16,280	18,160	19,521	20,316	22,679	23,303	23,536	160,677
Total	115,643	120,632	122,646	125,285	130,233	139,050	143,474	145,068	1,042,031

Furthermore, the reporting levels of some communities have changed dramatically as communities move from submitting crash reports on paper to submitting electronically (details on reporting levels by communities are available in dashboards and reports within the IMPACT crash data portal - <https://apps.impact.dot.state.ma.us/cdp/home>). Obviously, these reporting changes significantly impact the results of the Top High Crash Locations Report.

Crashes reported as occurring in off-street parking lots, garages, shopping center parking lots, etc. are generally excluded if submitted as paper reports to RMV. However, if submitted electronically the only systematic process for excluding them is if they are identified as Non-Public way crashes in the police reports, and this is not always the case. If such crashes are not identified this way they will be entered, automatically geocoded and therefore included in the crash clusters. As a result, some locations may have been identified as top crash locations even though the majority of crashes occurred on private property. Therefore, it is critical that this list only be used as a first brush approach. More detailed analysis of the specific crashes would be required.

Due to the many difficulties in obtaining precise, useable crash location data and many issues involved in variations in crash reporting rates by some jurisdictions, this report should be used as a general purpose screening tool rather than as a precise listing of crash frequencies by individual locations. Furthermore, because of the spatial nature of the crash clusters, it is imperative to view the crash clusters spatially and not just rely on the tabular naming convention to understand the crash cluster locations.

Methodology – Intersection Locations

The intersection crash cluster analysis method, developed by MassDOT, is a comprehensive method designed to locate crash clusters. At the heart of the method is a 25 meter (82 ft.) fixed search distance around each crash. In basic terms, this radius controls how far the application will search for adjacent crashes. Using a 25 meter radius, the analysis method found nearby crashes and merged their areas together, thus creating clusters. If two distinct clusters are found to share a common crash, the two clusters are merged into a single cluster. This method of search-and-merge results in a set of many distinct clusters of different sizes and shapes. The application then stores these clusters to the GIS output file, along with the count of crashes within the cluster. **The only crashes included in this were the ones in which the police officer specified that the crashes have one of the following junction types:**

Four way intersection, T-intersection, Y-intersection, five point or more. The clusters were then ranked by the number of Equivalent Property Damage Only (EPDO) crashes contained within their boundaries. Previously, fatal crashes were weighted by 10, injury crashes were weighted by 5 and property damage only or non-reported severity crashes were weighted by 1. **However, this year like last year, the crash weighting was aligned with the calculated crash costs based on a 2017 FHWA report, “Crash Costs for Highway Safety Analyses”** <https://safety.fhwa.dot.gov/hsip/docs/fhwas17071.pdf>.

Crash Severity	Costs	% of all crashes in MA	Weighting Factor
Fatal Crashes	\$ 14,482,300	0.2%	21
Incapacitating Injury Crashes	\$860,700	2.0%	
Non-Incapacitating Injury Crashes	\$260,800	12.0%	
Possible Injury Crashes	\$ 165,000	16.0%	
Property Damage Only Crashes	\$ 15,600	70.0%	1
TOTAL		100.0%	

So as not to end up just chasing fatal crashes, all of the fatal and injury crashes were weighted together (about 30% of all crashes in Massachusetts). This resulted in any type of injury crash (including fatal, incapacitating, non-incapacitating and possible) having a weighting of 21 compared to a property damage only crash.

The crash clusters were then named based on the highest functional classification roadway within the cluster, followed by the roadway with the second highest functional classification. In instances where there were two roadways with the identical classification, the first street name selected was the street with the longest segment contained within the cluster. Some cluster naming was modified to insert the name of a private way or site drive, rather than leaving it as unnamed. Note that the area encompassing the crash cluster may cover a larger area than just the intersection so it is critical to view these spatially.

The clusters were reviewed in descending EPDO order until 200 locations were obtained. A sample of the top 2 ranked intersection locations is included in this report to illustrate the concept of the intersection clustering. The number one ranked location is VFW Parkway / Bridge Street in Lowell. A shapefile of the crash clusters is available upon request. The actual crash clusters can also be viewed on the interactive maps at <https://gis.massdot.state.ma.us/topcrashlocations/>

The above method was used to develop the top 200 intersection crash locations for crashes occurring during the three year period from 2015 to 2017. As with previous editions, the crash location analysis has been scored over a three-year period. By using crash experience over the three-year period, anomalies in the individual years of data tend to be reduced.

Methodology – Pedestrian and Bicycle Locations

Similar to previous years, the top locations where reported collisions occurred between pedestrians and motor vehicles and bicycles and motor vehicles have been identified. The crash cluster analysis methodology for both the top pedestrian and the top bicycle crashes is similar to the top intersection location methodology in that it uses a fixed meter search distance (for both pedestrian and bicycle crashes it is 100 meters (328 ft.) compared to 25 meters for intersection locations) to merge crash

clusters together. Crashes involving collisions between motor vehicles and pedestrians or bicycles were identified by using the non-motorist type code and, **also where the first harmful event or most harmful event being a collision with a pedestrian or cyclist** within the CDS database. Furthermore, the new methodology (where actual crash costs are factored in) uses the Equivalent Property Damage Only (EPDO) weighting to rank the clusters where an injury crash of any type (fatal or non-fatal) is equal to 21 property damage only crashes. Similar to the past few years and because of the relatively small number of reported pedestrian and bicycle crashes in the crash data file, the clustering analysis used crashes from the ten year period from 2008-2017, instead of the three year analysis for intersection locations. Additionally, due to the larger geographic area encompassed by both the pedestrian and the bicycle crash clusters, it was difficult to name them so they were left unnamed but can be viewed spatially. The top 10 ranked pedestrian crash locations and the top 10 bicycle crash locations are included in this report. The actual crash clusters can be viewed on the interactive maps at <https://gis.massdot.state.ma.us/topcrashlocations/>

For further information, please contact Neil Boudreau, Assistant Administrator for Traffic and Safety, MassDOT Highway Division, 10 Park Plaza, Room 7210, Boston, MA 02116, phone (857) 368-9655.

NOTICE

MassDOT makes no representation as to the accuracy, adequacy, reliability, availability or completeness of the crash records or the data collected from them and is not responsible for any errors or omissions in such records or data. Under no circumstance will MassDOT have any liability for any loss or damage incurred by any party as a result of the use of the crash records or the data collected from them.

It should be noted that the Top Crash Locations Report was compiled under the authority of United States Code Title 23, Section 148, Highway Safety Improvement Program, sponsored by the Federal Highway Administration. The compilation of such information is, therefore, subject to the limitations of Section 148 (g) (4) which states:

DISCOVERY AND ADMISSION INTO EVIDENCE OF CERTAIN REPORTS, SURVEYS, AND INFORMATION - Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section, shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in such reports, surveys, schedules, lists or other data.

2015-2017 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	LPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
1	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY		BRIDGE STREET		124	684	28	96
2	MILTON	MAPC	6	RANDOLPH AVENUE	28	CHICKATAWBUT ROAD		60	660	30	30
3	BOSTON	MAPC	6	MORTON STREET	203	HARVARD STREET		44	644	30	14
4	BROCKTON	OCPC	5	ASH STREET		WEST ELM STREET		56	636	29	27
5	LOWELL	NMCOG	4	APPLETON STREET	110	CENTRAL STREET		72	592	26	46
6	STOUGHTON	OCPC	5	PLEASANT STREET	139	LINCOLN STREET		51	491	22	29
7	SPRINGFIELD	PVPC	2	MAIN STREET		PLAINFIELD STREET	20A	39	479	22	17
8	HOLYOKE	PVPC	2	HIGH STREET		CABOT STREET		57	477	21	36
9	CHELSEA	MAPC	6	BROADWAY		THIRD STREET		50	470	21	29
10	SPRINGFIELD	PVPC	2	SAINT JAMES AVENUE		SAINT JAMES BOULEVARD	20A	40	460	21	19
11	WORCESTER	CMRPC	3	SOUTHBRIDGE STREET		HAMMOND STREET		57	457	20	37
12	BRAINTREE	MAPC	6	GRANITE STREET	37	COMMON STREET		54	454	20	34
13	DANVERS	MAPC	4	ROUTE 128 NORTHBOUND ON-RAMP	128	ELLIOTT STREET	62	56	436	19	37
13	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	ADAMS STREET		36	436	20	16
15	BROCKTON	OCPC	5	COURT STREET	27	MONTELO STREET	28	43	423	19	24
15	WORCESTER	CMRPC	3	CHANDLER STREET	122	MASON STREET		63	423	18	45
17	WESTFIELD	PVPC	2	HOLYOKE ROAD		SPRINGDALE ROAD		41	421	19	22
17	CHELSEA	MAPC	6	EASTERN AVENUE		CHELSEA STREET BRIDGE		41	421	19	22
17	SPRINGFIELD	PVPC	2	SAINT JAMES AVENUE		TAPLEY STREET		41	421	19	22
20	RAYNHAM	SRPEDD	5	NEW STATE HIGHWAY	44	ORCHARD STREET		57	417	18	39
21	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY	113	MAMMOTH ROAD		75	415	17	58
22	LOWELL	NMCOG	4	SCHOOL STREET		BRANCH STREET		53	413	18	35
23	BROCKTON	OCPC	5	FOREST AVENUE		BOUVE AVENUE		31	411	19	12
24	BROCKTON	OCPC	5	MAIN STREET		NILSSON STREET		30	410	19	11
25	BROCKTON	OCPC	5	WARREN AVENUE		FATHER KENNEY WAY		26	406	19	7
25	FALL RIVER	SRPEDD	5	BEDFORD STREET		TROY STREET		46	406	18	28
27	SPRINGFIELD	PVPC	2	ARMORY CIRCLE		ARMORY STREET		25	405	19	6
28	BROCKTON	OCPC	5	MAIN STREET		LEGION PARKWAY	123	43	403	18	25
29	FALMOUTH	CCC	5	SANDWICH ROAD		NATHAN ELLIS HIGHWAY	151	41	401	18	23
29	FALL RIVER	SRPEDD	5	PLYMOUTH AVENUE	81	RODMAN STREET		61	401	17	44
31	TYNGSBOROUGH	NMCOG	4	MIDDLESEX ROAD		KENDALL ROAD	113	59	399	17	42
32	LOWELL	NMCOG	4	APPLETON STREET	110	GORHAM STREET		38	398	18	20
32	LYNN	MAPC	4	WESTERN AVENUE	107	CHESTNUT STREET		58	398	17	41
34	BROCKTON	OCPC	5	WARREN AVENUE		FOREST AVENUE		36	396	18	18
35	BROCKTON	OCPC	5	MAIN STREET		PLEASANT STREET	27	34	394	18	16
35	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY		AIKEN STREET		54	394	17	37
37	SPRINGFIELD	PVPC	2	MAGAZINE STREET		LINCOLN STREET		32	392	18	14
38	LEOMINSTER	MRPC	3	NORTH MAIN STREET	12	HAMILTON STREET		46	386	17	29
39	EVERETT,CHELSEA	MAPC	4,6	REVERE BEACH PARKWAY	16	EVERETT AVENUE		45	385	17	28
40	QUINCY	MAPC	6	HONORABLE THOMAS S BURGIN PARKWAY		WALTER J HANNON PARKWAY		83	383	15	68
41	WORCESTER	CMRPC	3	KELLEY SQUARE		WATER STREET		80	380	15	65
41	RANDOLPH	MAPC	6	SOUTH MAIN STREET	28	UNION STREET	139	40	380	17	23
43	SOMERSET	SRPEDD	5	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	LEES RIVER AVENUE		36	376	17	19
43	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	GRANITE AVENUE		36	376	17	19
45	SPRINGFIELD	PVPC	2	BOSTON ROAD		BAY STREET		34	374	17	17
45	SWANSEA	SRPEDD	5	MARKET STREET	136	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	74	374	15	59
47	WEBSTER	CMRPC	3	WORCESTER ROAD		EAST MAIN STREET	12	44	364	16	28
48	FALL RIVER	SRPEDD	5	PRESIDENT AVENUE	6	HIGHLAND AVENUE		43	363	16	27
49	NEW BEDFORD	SRPEDD	5	JOHN F KENNEDY MEMORIAL HIGHWAY	18	POTOMSKA STREET		39	359	16	23
50	AVON	OCPC	5	EAST MAIN STREET	28	EAST SPRING STREET		38	358	16	22
51	BROCKTON	OCPC	5	CENTRE STREET	123	PLYMOUTH STREET		37	357	16	21
51	QUINCY	MAPC	6	SOUTHERN ARTERY	3A	SEA STREET		57	357	15	42

2015-2017 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	LPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
51	TAUNTON	SRPEDD	5	WILLIAMS STREET		GORDON M OWEN RIVERWAY		37	357	16	21
54	GRANBY	PVPC	2	EAST STATE STREET	202	SCHOOL STREET		36	356	16	20
55	BROCKTON	OCPC	5	CRESCENT STREET	27	LYMAN STREET		35	355	16	19
56	TEWKSBURY	NMCOG	4	SOUTH STREET		SALEM ROAD		53	353	15	38
57	BROCKTON	OCPC	5	WARREN AVENUE		MARKET STREET		32	352	16	16
58	CHELSEA	MAPC	6	REVERE BEACH PARKWAY	16	WASHINGTON AVENUE		51	351	15	36
59	LOWELL	NMCOG	4	LORD OVERPASS	110	APPLETON STREET		30	350	16	14
60	REVERE	MAPC	4	REVERE BEACH PARKWAY	145	TOMASELLO WAY		28	348	16	12
60	TAUNTON	SRPEDD	5	COUNTY STREET	140	HART STREET		48	348	15	33
62	CHICOPEE	PVPC	2	MEMORIAL DRIVE	33	PENDLETON AVENUE		45	345	15	30
63	STOUGHTON	OCPC	5	CANTON STREET	27	SCHOOL STREET		43	343	15	28
64	QUINCY	MAPC	6	MCGRATH HIGHWAY		WASHINGTON STREET		37	337	15	22
64	QUINCY	MAPC	6	HONORABLE THOMAS S BURGIN PARKWAY		CENTRE STREET		37	337	15	22
66	FITCHBURG	MRPC	3	BOULDER DRIVE		MAIN STREET	2A	36	336	15	21
67	BROCKTON	OCPC	5	NORTH MAIN STREET		OAK STREET		34	334	15	19
67	BOSTON	MAPC	6	MASSACHUSETTS AVENUE CONNECTOR		FRONTAGE ROAD		74	334	13	61
69	SPRINGFIELD	PVPC	2	BOSTON ROAD	20	PARKER STREET		33	333	15	18
69	LYNN	MAPC	4	WASHINGTON STREET	129	LAIGHTON STREET		33	333	15	18
71	SPRINGFIELD	PVPC	2	MAPLE STREET		UNION STREET		30	330	15	15
72	EASTON	OCPC	5	TURNPIKE STREET		PURCHASE STREET		29	329	15	14
72	CHELSEA	MAPC	6	REVERE BEACH PARKWAY	16	GARFIELD AVENUE		49	329	14	35
74	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	SPRING STREET		28	328	15	13
75	BROCKTON	OCPC	5	WEST ELM STREET		MORaine STREET		26	326	15	11
76	SPRINGFIELD	PVPC	2	ROOSEVELT AVENUE		PAGE BOULEVARD	20A	45	325	14	31
76	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	DORCHESTER AVENUE		25	325	15	10
76	SOMERVILLE	MAPC	4	MCGRATH HIGHWAY		WASHINGTON STREET		45	325	14	31
79	BROCKTON	OCPC	5	PLEASANT STREET	27	WARREN AVENUE		40	320	14	26
80	BILLERICA,TEWKSBURY	NMCOG	4	ANDOVER ROAD		WHIPPLE ROAD		38	318	14	24
81	FRAMINGHAM	MAPC	3	WORCESTER ROAD	9	CALIFORNIA AVENUE		37	317	14	23
81	NEW BEDFORD	SRPEDD	5	ALFRED BESSETTE MEMORIAL HIGHWAY	140	KEMPTON STREET	6	37	317	14	23
83	FITCHBURG	MRPC	3	WATER STREET	12	WANDOSNOC ROAD		56	316	13	43
83	FRAMINGHAM	MAPC	3	WORCESTER ROAD	9	CALDOR ROAD		36	316	14	22
83	TAUNTON	SRPEDD	5	WASHINGTON STREET		EAST BRITANNIA STREET		36	316	14	22
86	WORCESTER	CMRPC	3	PARK AVENUE	9	PLEASANT STREET		35	315	14	21
87	BROCKTON,ABINGTON	OCPC	5	NORTH QUINCY STREET		CHESTNUT STREET		34	314	14	20
87	WORCESTER	CMRPC	3	CANTERBURY STREET		GARDNER STREET		34	314	14	20
89	BROCKTON	OCPC	5	MONTELLO STREET	28	EAST NILSSON STREET		32	312	14	18
89	WORCESTER	CMRPC	3	PARK AVENUE	9	MAY STREET		52	312	13	39
91	WEYMOUTH	MAPC	6	MAIN STREET	18	MIDDLE STREET		51	311	13	38
92	STONEHAM	MAPC	4	MAIN STREET	28	NORTH BORDER ROAD		30	310	14	16
93	MILTON	MAPC	6	BLUE HILL AVENUE	138	DOLLAR LANE		27	307	14	13
94	BROCKTON	OCPC	5	COURT STREET		NORTH CARY STREET		26	306	14	12
94	BROCKTON	OCPC	5	WEST ELM STREET		BELMONT AVENUE		26	306	14	12
96	BARNSTABLE	CCC	5	IYANNOUGH ROAD	28	YARMOUTH ROAD		45	305	13	32
96	BROCKTON	OCPC	5	WEST ELM STREET		NEWBURY STREET		25	305	14	11
98	BROCKTON	OCPC	5	GROVE STREET		CURVE STREET		22	302	14	8
98	LOWELL	NMCOG	4	MIDDLESEX STREET		WOOD STREET		62	302	12	50
98	MEDFORD	MAPC	4	MYSTIC VALLEY PARKWAY		MAIN STREET	38	42	302	13	29
101	RAYNHAM	SRPEDD	5	BROADWAY	138	CARVER STREET		20	300	14	6
101	WORCESTER	CMRPC	3	MAIN STREET		MILL STREET	12	40	300	13	27
103	WORCESTER	CMRPC	3	EAST CENTRAL STREET		SUMMER STREET		39	299	13	26
103	WORCESTER	CMRPC	3	CHANDLER STREET	122	PIEDMONT STREET		39	299	13	26

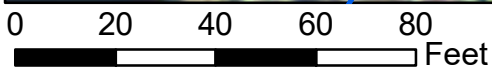
2015-2017 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	LPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
103	WORCESTER	CMRPC	3	MAIN STREET		CHANDLER STREET	122	39	299	13	26
106	BROOKLINE	MAPC	6	VETERANS OF FOREIGN WARS PARKWAY		SOUTH STREET		18	298	14	4
107	NEW BEDFORD	SRPEDD	5	KEMPTON STREET	6	ROCKDALE AVENUE		37	297	13	24
107	WORCESTER	CMRPC	3	PARK AVENUE	12	SALISBURY STREET		37	297	13	24
109	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	SECOND STREET		36	296	13	23
110	LYNN	MAPC	4	WESTERN AVENUE	107	EASTERN AVENUE		55	295	12	43
110	BILLERICA	NMCOG	4	SALEM ROAD	129	POND STREET		35	295	13	22
112	BROCKTON	OCPC	5	PLEASANT STREET	27	ASH STREET		33	293	13	20
113	SPRINGFIELD	PVPC	2	WALNUT STREET		UNION STREET		32	292	13	19
113	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE	3	WESTERN AVENUE		32	292	13	19
115	LEOMINSTER	MRPC	3	MAIN STREET	13	HAMILTON STREET		71	291	11	60
115	CAMBRIDGE	MAPC	6	MASSACHUSETTS AVENUE	2A	ALBANY STREET		31	291	13	18
115	BROCKTON	OCPC	5	WARREN AVENUE	123	WEST ELM STREET		31	291	13	18
115	WORCESTER	CMRPC	3	SUNDERLAND ROAD		SOUTHWEST CUTOFF	20	31	291	13	18
119	MIDDLEBOROUGH	SRPEDD	5	SOUTH MAIN STREET	105	EAST GROVE STREET	28	50	290	12	38
120	NORTH ANDOVER	MVPC	4	CHICKERING ROAD	125	MASSACHUSETTS AVENUE		29	289	13	16
121	NORWOOD	MAPC	5	BLUE STAR MEMORIAL HIGHWAY	1	EVERETT STREET		28	288	13	15
121	BOSTON	MAPC	6	MORTON STREET		GALLIVAN BOULEVARD	203	28	288	13	15
121	QUINCY	MAPC	6	BEALE STREET		NEWPORT AVENUE		48	288	12	36
124	WEST SPRINGFIELD	PVPC	2	RIVERDALE STREET	5	MORGAN ROAD		46	286	12	34
124	MEDFORD	MAPC	4	MEDFORD VETERANS MEMORIAL HIGHWAY	16	FELLSWAY (WELLINGTON CIRCLE)		66	286	11	55
126	BROCKTON	OCPC	5	OAK STREET		CAMPANELLI INDUSTRIAL DRIVE		25	285	13	12
126	LOWELL	NMCOG	4	GORHAM STREET		ELM STREET		45	285	12	33
126	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE		MASSACHUSETTS AVENUE		25	285	13	12
126	WORCESTER	CMRPC	3	LINCOLN STREET	70	CATHARINE STREET		25	285	13	12
126	WORCESTER	CMRPC	3	MOUNTAIN STREET WEST		BROOKS STREET		25	285	13	12
126	RANDOLPH	MAPC	6	NORTH MAIN STREET	28	SCANLON DRIVE		25	285	13	12
132	FRAMINGHAM	MAPC	3	WORCESTER ROAD	9	COCHITUATE ROAD		23	283	13	10
132	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE	3	RIVER STREET		23	283	13	10
132	LOWELL	NMCOG	4	SCHOOL STREET		MIDDLESEX STREET		23	283	13	10
135	MEDFORD	MAPC	4	REVERE BEACH PARKWAY	16	FELLSWAY (WELLINGTON CIRCLE)	28	42	282	12	30
135	SPRINGFIELD	PVPC	2	ARMORY STREET		CAREW STREET	20A	22	282	13	9
135	SPRINGFIELD	PVPC	2	STATE STREET		DRESDEN STREET		22	282	13	9
138	SPRINGFIELD	PVPC	2	CAREW STREET	20A	DWIGHT STREET		19	279	13	6
139	SPRINGFIELD	PVPC	2	ROOSEVELT AVENUE		BAY STREET		38	278	12	26
139	EAST BRIDGEWATER	OCPC	5	BEDFORD STREET	18	WEST STREET	106	38	278	12	26
141	HOLYOKE	PVPC	2	MAIN STREET		CABOT STREET		37	277	12	25
142	SPRINGFIELD	PVPC	2	OAKLAND STREET		ORANGE STREET		16	276	13	3
143	PEMBROKE	OCPC	5	SCHOOSETT STREET		WASHINGTON STREET	53	35	275	12	23
143	LOWELL	NMCOG	4	GORHAM STREET		CENTRAL STREET		35	275	12	23
145	SPRINGFIELD	PVPC	2	EAST COLUMBUS AVENUE		BOLAND WAY		33	273	12	21
146	WESTBOROUGH	CMRPC	3	TURNPIKE ROAD	9	LYMAN STREET		52	272	11	41
146	WEST BRIDGEWATER	OCPC	5	WEST CENTER STREET	106	PROSPECT STREET		32	272	12	20
148	LOWELL	NMCOG	4	PRINCETON BOULEVARD	3A	WOOD STREET		31	271	12	19
149	LYNN	MAPC	4	BROAD STREET	1A	WASHINGTON STREET		29	269	12	17
149	LYNN	MAPC	4	MARIANNA STREET		CHATHAM STREET		29	269	12	17
149	QUINCY	MAPC	6	PARKING WAY		ACCESS ROAD		29	269	12	17
152	LOWELL	NMCOG	4	WESTFORD STREET	3A	WILDER STREET		48	268	11	37
153	HINGHAM	MAPC	5	JUSTICE CUSHING WAY	3A	KILBY STREET		27	267	12	15
154	SOMERVILLE	MAPC	4	MYSTIC AVENUE	38	MCGRATH HIGHWAY	28	46	266	11	35
154	WEYMOUTH	MAPC	6	MAIN STREET	18	COLUMBIAN STREET		26	266	12	14
154	BOSTON	MAPC	6	RIVERWAY		LONGWOOD AVENUE		26	266	12	14

2015-2017 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	EPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
157	SPRINGFIELD	PVPC	2	BAY STREET		BERKSHIRE AVENUE		24	264	12	12
157	BROCKTON	OCPC	5	NORTH CARY STREET		EAST ASHLAND STREET		24	264	12	12
157	QUINCY	MAPC	6	HANCOCK STREET		FURNACE BROOK PARKWAY		44	264	11	33
157	LYNN	MAPC	4	WASHINGTON STREET	129	HANOVER STREET		24	264	12	12
157	BROCKTON	OCPC	5	BELMONT STREET	123	MANLEY STREET		24	264	12	12
162	SPRINGFIELD	PVPC	2	STATE STREET		EASTERN AVENUE		23	263	12	11
162	HOLYOKE	PVPC	2	BEECH STREET	202	WEST FRANKLIN STREET		43	263	11	32
162	EAST BRIDGEWATER	OCPC	5	NORTH BEDFORD STREET	18	HIGHLAND STREET		43	263	11	32
162	NEW BEDFORD	SRPEDD	5	JOHN F KENNEDY MEMORIAL HIGHWAY		BROCK AVENUE		23	263	12	11
162	SPRINGFIELD	PVPC	2	EAST COLUMBUS AVENUE		MAIN STREET		23	263	12	11
167	LYNN	MAPC	4	WESTERN AVENUE	107	WASHINGTON STREET	129	41	261	11	30
167	NORTH ATTLEBOROUGH	SRPEDD	5	EAST WASHINGTON STREET	1	SOUTH WASHINGTON STREET		41	261	11	30
167	BRAINTREE	MAPC	6	GRANITE STREET	37	WEST STREET		21	261	12	9
167	FITCHBURG	MRPC	3	FRANKLIN ROAD		OAK HILL ROAD		21	261	12	9
171	BROCKTON	OCPC	5	PLEASANT STREET	27	AUGUSTA AVENUE		20	260	12	8
171	LYNN	MAPC	4	LYNNFIELD STREET	129	BROADWAY		60	260	10	50
171	SPRINGFIELD	PVPC	2	WALNUT STREET		LEBANON STREET		20	260	12	8
174	BROCKTON	OCPC	5	MAIN STREET		PERKINS AVENUE		19	259	12	7
175	BROCKTON	OCPC	5	NORTH MONTELLO STREET	28	AMES STREET		18	258	12	6
175	MARLBOROUGH	MAPC	3	SOUTH BOLTON STREET	85	GRANGER BOULEVARD	20	38	258	11	27
177	MANSFIELD	SRPEDD	5	CHAUNCY STREET	106	NORTH MAIN STREET		37	257	11	26
177	STURBRIDGE	CMRPC	3	ROUTE 49	49	PUTNAM ROAD		17	257	12	5
177	BROCKTON	OCPC	5	FULLER STREET		BARTLETT STREET		17	257	12	5
180	SWANSEA	SRPEDD	5	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	MAPLE AVENUE		35	255	11	24
180	HAVERHILL	MVPC	4	MAIN STREET	97	SUMMER STREET		35	255	11	24
180	WORCESTER	CMRPC	3	MADISON STREET	122	SOUTHBRIDGE STREET		35	255	11	24
183	PEABODY	MAPC	4	NEWBURYPORT TURNPIKE (JUGHANDLE)	1			34	254	11	23
183	WORCESTER	CMRPC	3	JUNE STREET		MAY STREET		34	254	11	23
185	NORTH ATTLEBOROUGH	SRPEDD	5	EAST WASHINGTON STREET	1	CHESTNUT STREET		32	252	11	21
185	LEXINGTON	MAPC	4	BEDFORD STREET	4	HARRINGTON ROAD		52	252	10	42
187	MILFORD	MAPC	3	CEDAR STREET	85	OLD CEDAR STREET		30	250	11	19
187	SPRINGFIELD	PVPC	2	SUMNER AVENUE	83	BELMONT AVENUE		30	250	11	19
187	CHICOPEE	PVPC	2	MEMORIAL DRIVE	33	IRENE STREET		30	250	11	19
190	LAWRENCE	MVPC	4	BROADWAY	28	ESSEX STREET		29	249	11	18
190	CHICOPEE	PVPC	2	BROADWAY		EAST MAIN STREET	141	49	249	10	39
190	HAVERHILL	MVPC	4	WINTER STREET	97	EMERSON STREET	110	29	249	11	18
190	ROWLEY	MVPC	4	NEWBURYPORT TURNPIKE	1	HAVERHILL STREET	133	29	249	11	18
190	BROCKTON	OCPC	5	CENTRE STREET	123	QUINCY STREET		29	249	11	18
195	WATERTOWN	MAPC	6	GALEN STREET		WATERTOWN STREET	16	28	248	11	17
195	SPRINGFIELD	PVPC	2	BOSTON ROAD		ARNOLD AVENUE		28	248	11	17
195	MILFORD	MAPC	3	MAIN STREET	16	PROSPECT STREET	140	28	248	11	17
195	BARNSTABLE	CCC	5	FALMOUTH ROAD	28	OSTERVILLE WEST BARNSTABLE ROAD		28	248	11	17
199	BROCKTON	OCPC	5	NORTH MONTELLO STREET	28	EAST ASHLAND STREET		27	247	11	16
199	WEST BRIDGEWATER	OCPC	5	WEST CENTER STREET	106	HOWARD STREET		27	247	11	16

Top Crash Intersections 2015-2017



USGS, MassGIS



Rank 1

LOWELL

VETERANS OF FOREIGN WARS HIGHWAY
BRIDGE STREET

MassDOT District: 4

RPA: Northern Middlesex Council of Governments

EPDO: 684

Number of Fatal and Injury Crashes: 28

Number of Non-Injury Crashes: 96

Total Crashes: 124

Legend

● Crash Locations 2015-2017

Functional Class

Local Roads

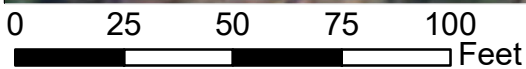
All functional classification except local roads

Street_Name

Top Crash Intersections



Top Crash Intersections 2015-2017



Rank 2

MILTON

RANDOLPH AVENUE
CHICKATAWBUT ROAD

ROUTE 28

MassDOT District: 6

RPA: Metropolitan Area Planning Council

EPDO: 660

Number of Fatal & Injury Crashes: 30

Number of Non-Injury Crashes: 30

Total Crashes: 60

Legend

● Crash Locations 2015-2017

Functional Class

Local Roads

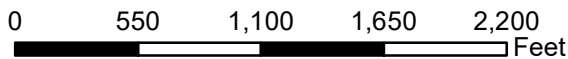
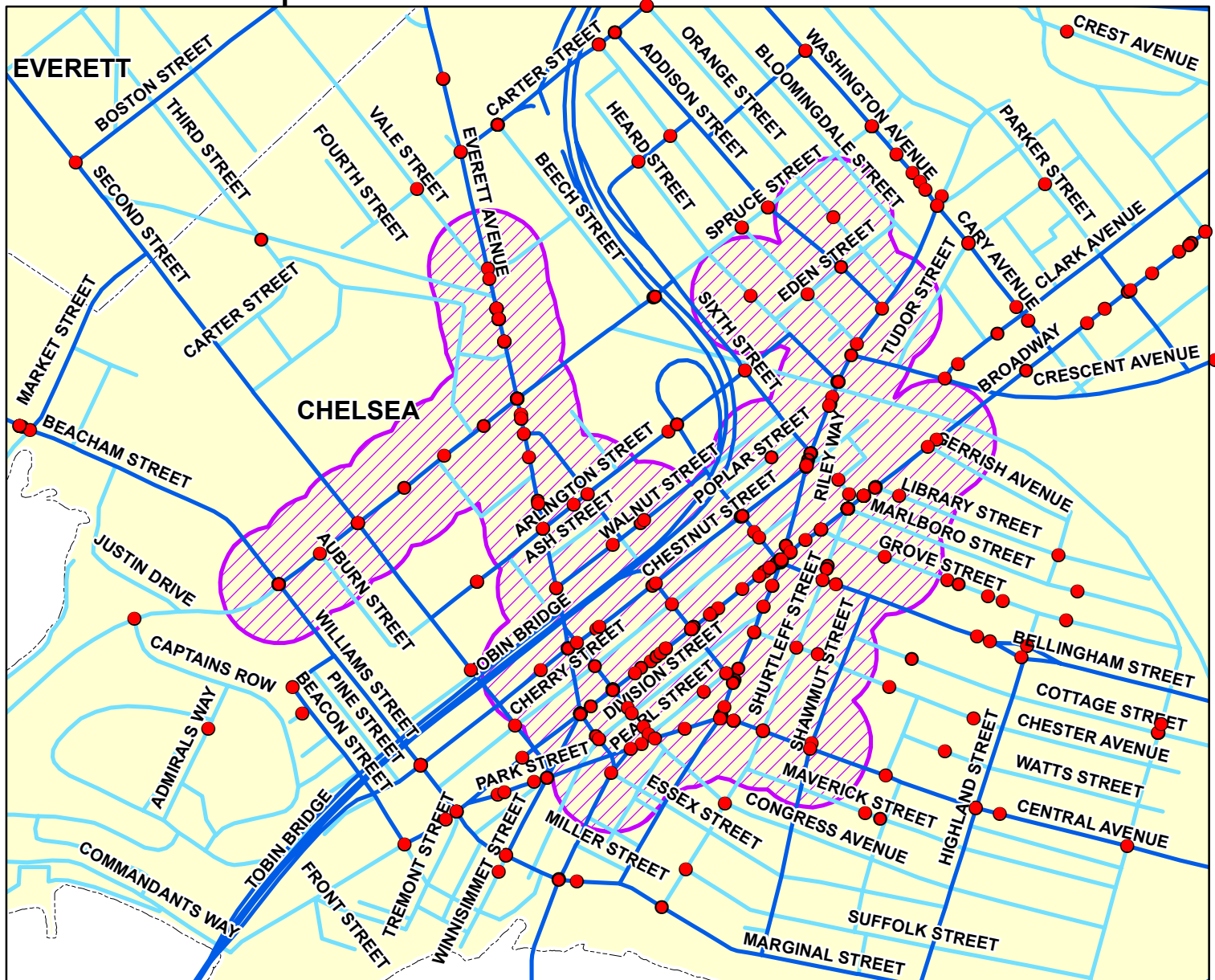
All functional classification except local roads

Street_Name

Top Crash Intersections



Top Pedestrian Crash Cluster 2008 - 2017



RANK 1

CHELSEA

MassDOT District: 6

RPA: MAPC

EPDO: 4074

Number of Fatal and Injury Crashes: 191

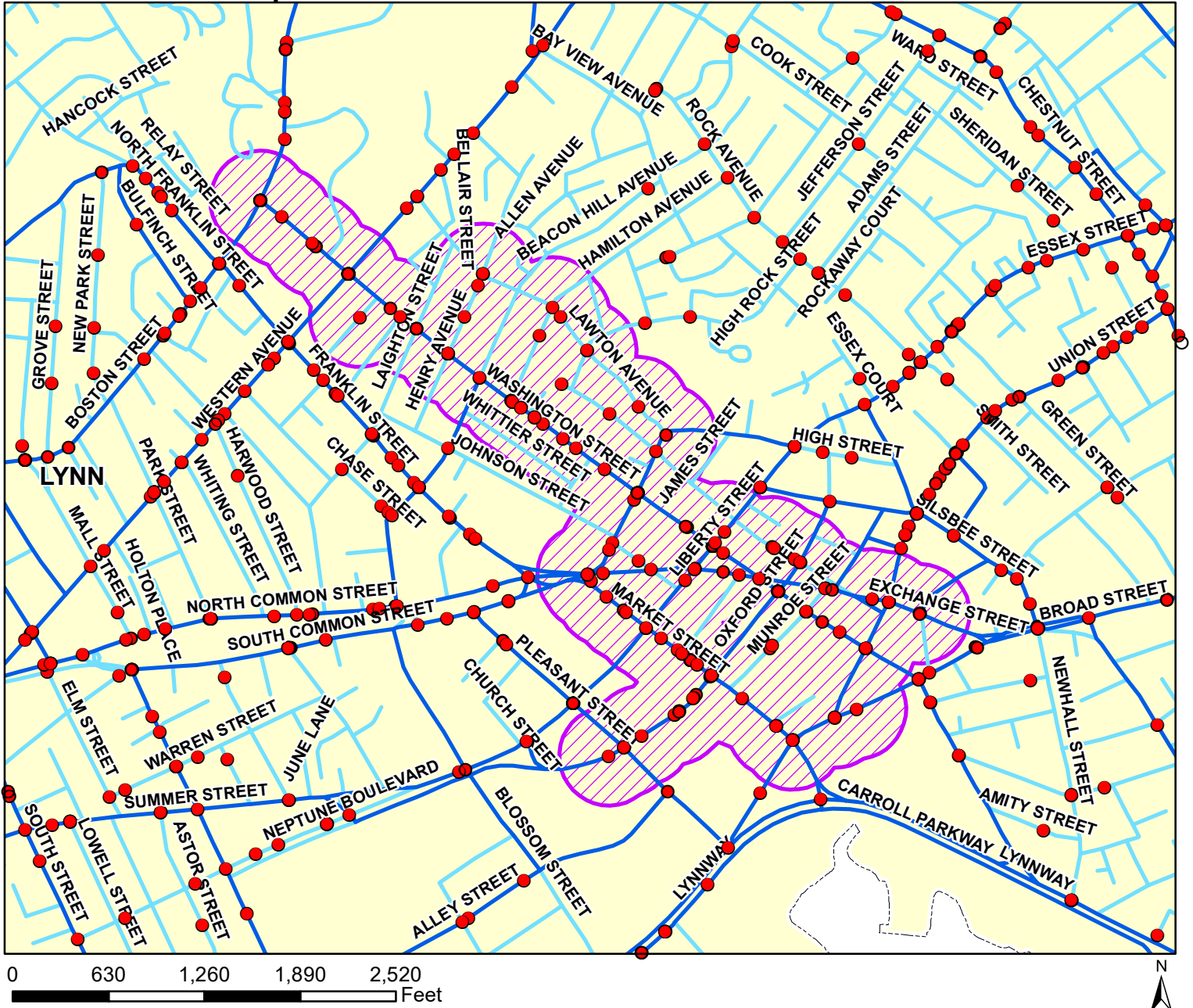
Number of Non-Injury Crashes: 63

Total Crashes: 254

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
2

LYNN

MassDOT District: 4

RPA: MAPC

EPDO: 3235

Number of Fatal and Injury Crashes: 151

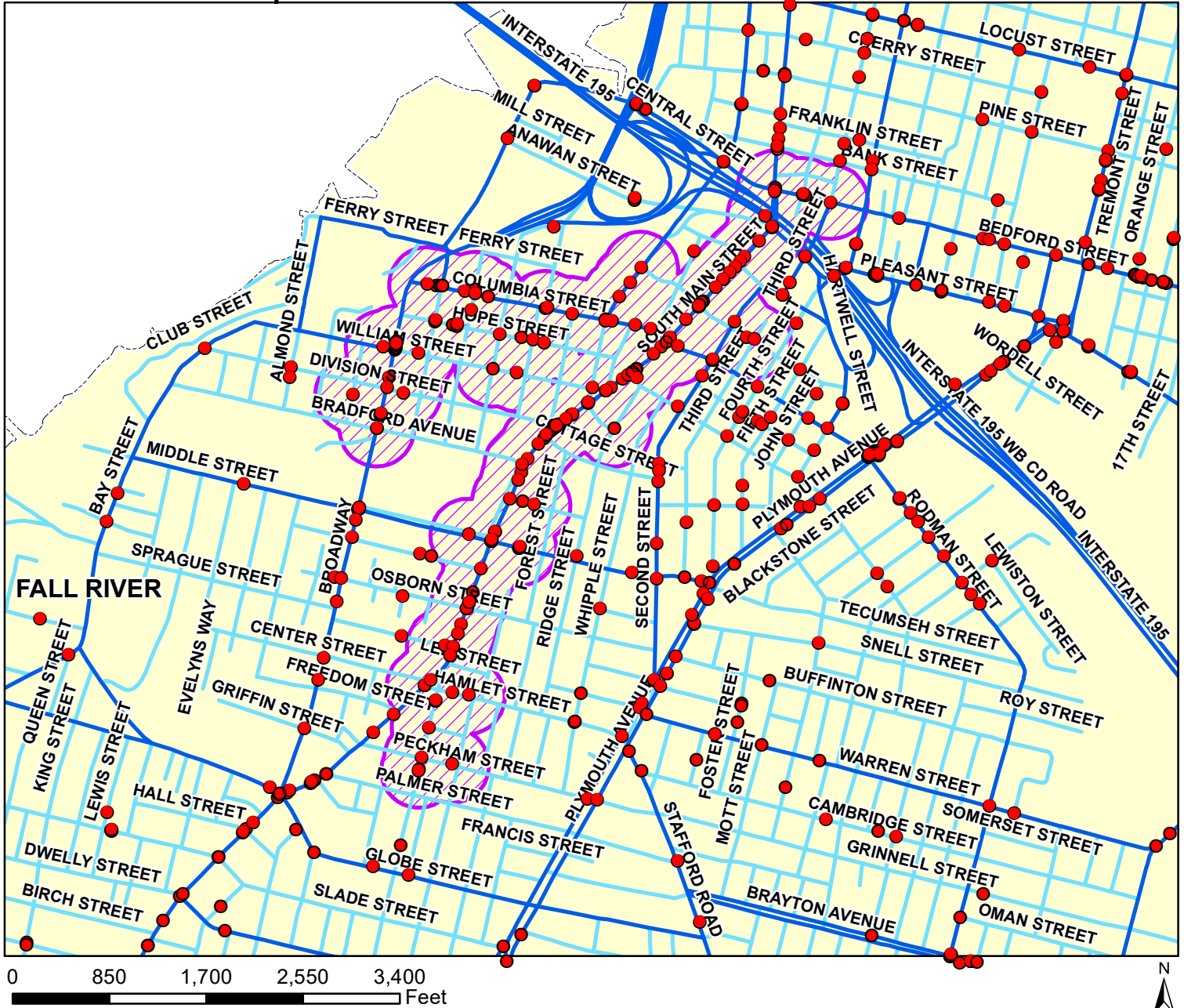
Number of Non-Injury Crashes: 64

Total Crashes: 215

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
3

FALL RIVER

MassDOT District: 5

RPA: SRPEDD

EPDO: 2892

Number of Fatal and Injury Crashes: 136

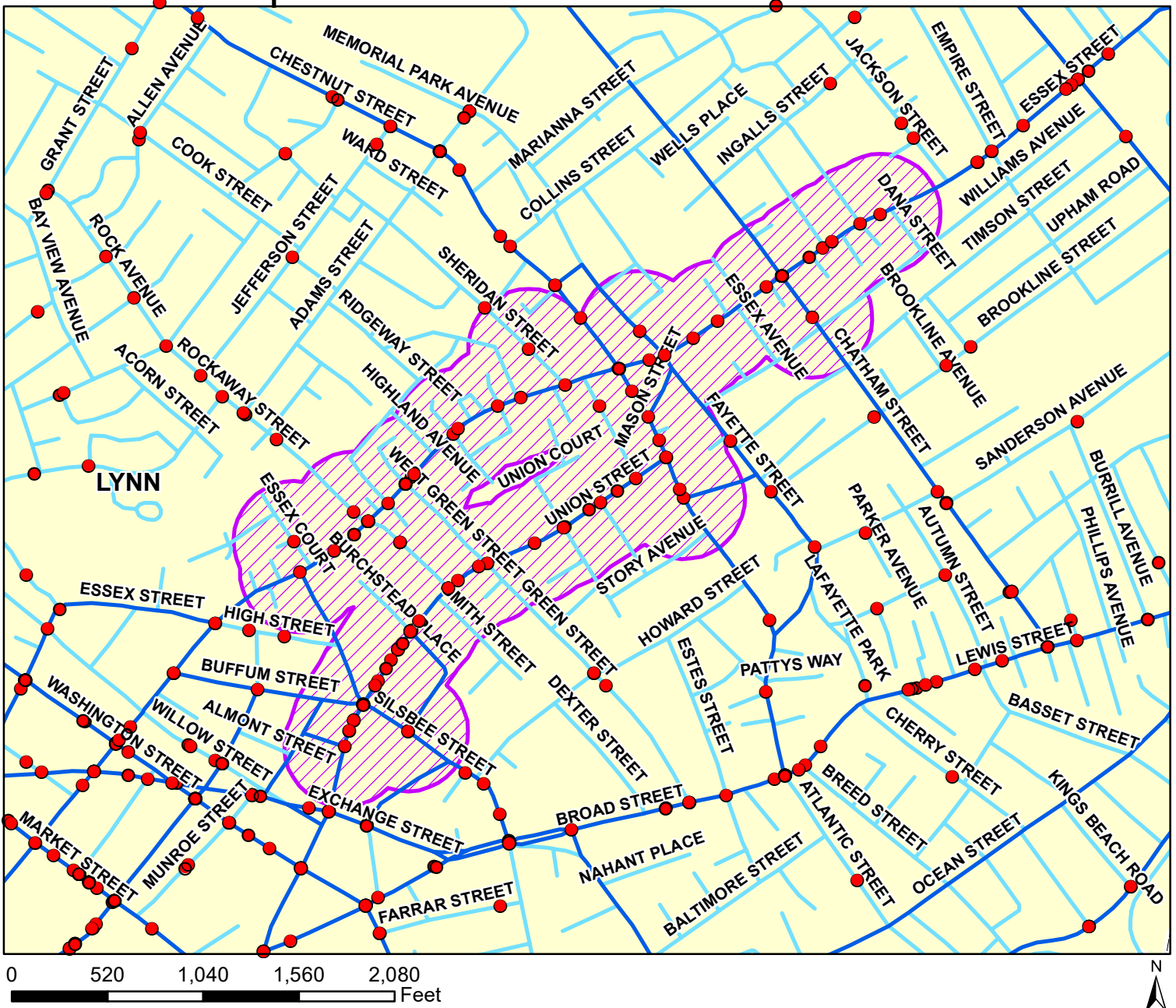
Number of Non-Injury Crashes: 36

Total Crashes: 172

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
4

LYNN

MassDOT District: 4

RPA: MAPC

EPDO: 1946

Number of Fatal and Injury Crashes: 91

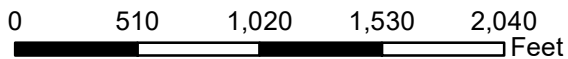
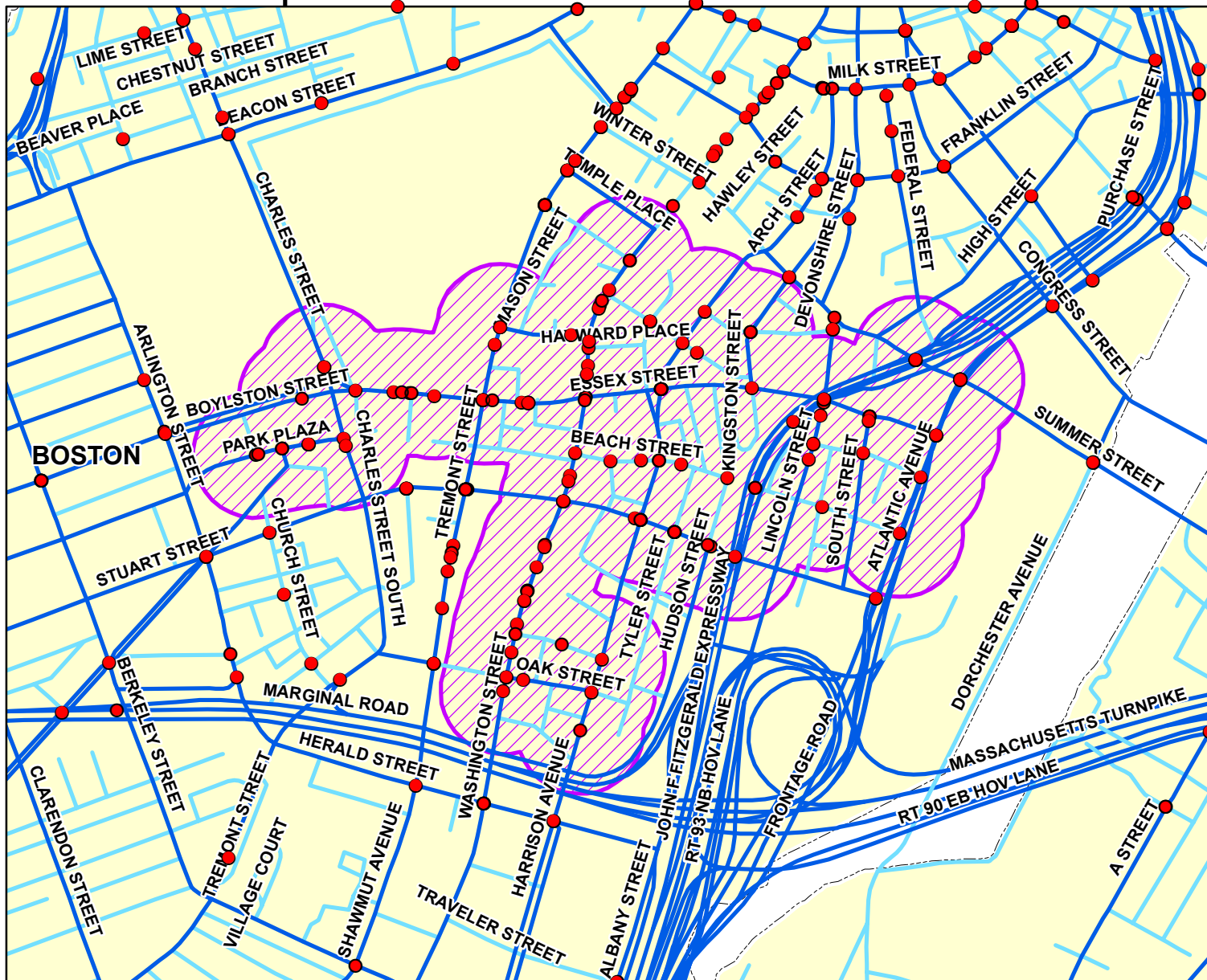
Number of Non-Injury Crashes: 35

Total Crashes: 126

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
5

BOSTON

MassDOT District: 6

RPA: MAPC

EPDO: 1899

Number of Fatal and Injury Crashes: 88

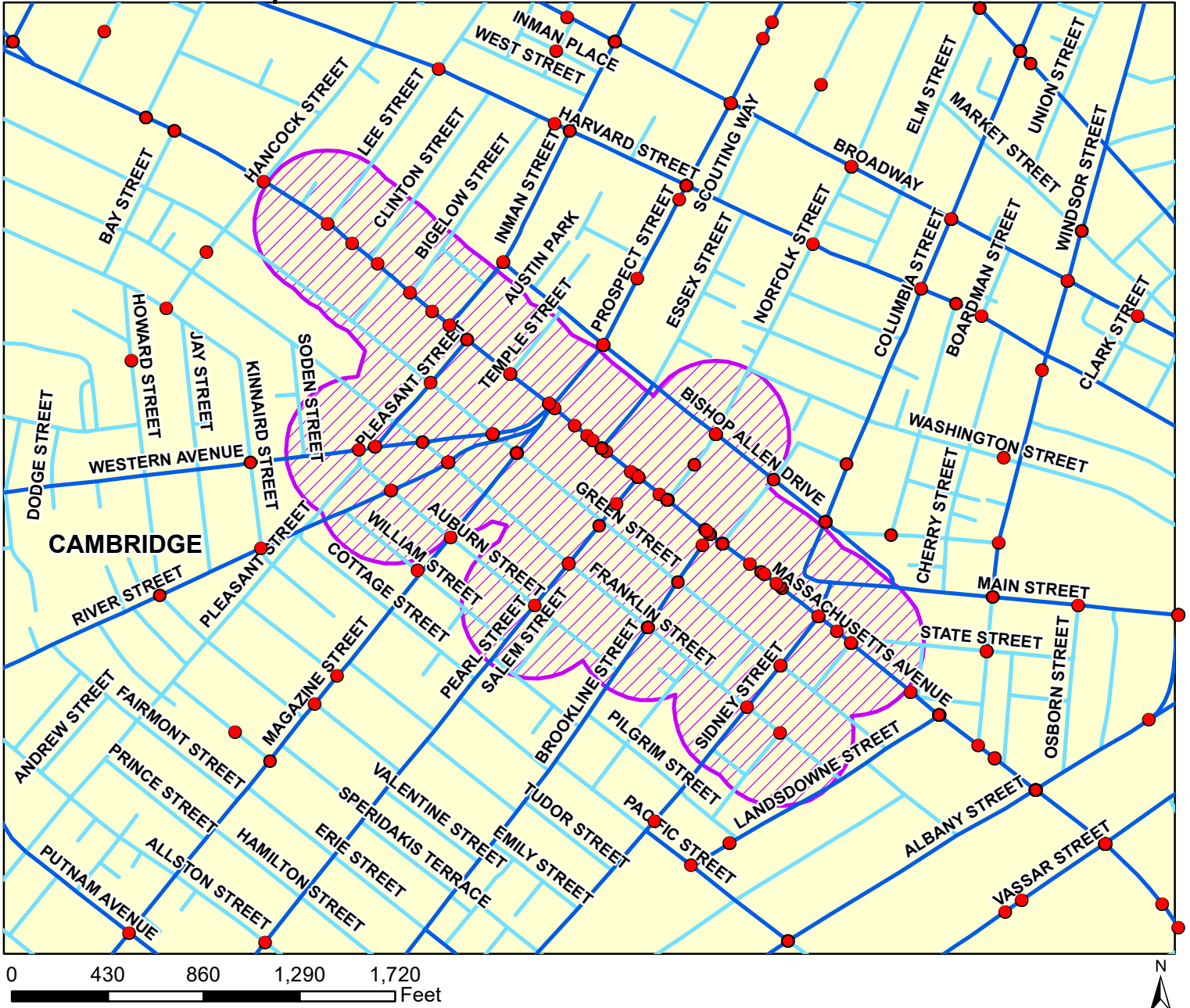
Number of Non-Injury Crashes: 51

Total Crashes: 139

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
6

CAMBRIDGE

MassDOT District: 6

RPA: MAPC

EPDO: 1895

Number of Fatal and Injury Crashes: 88

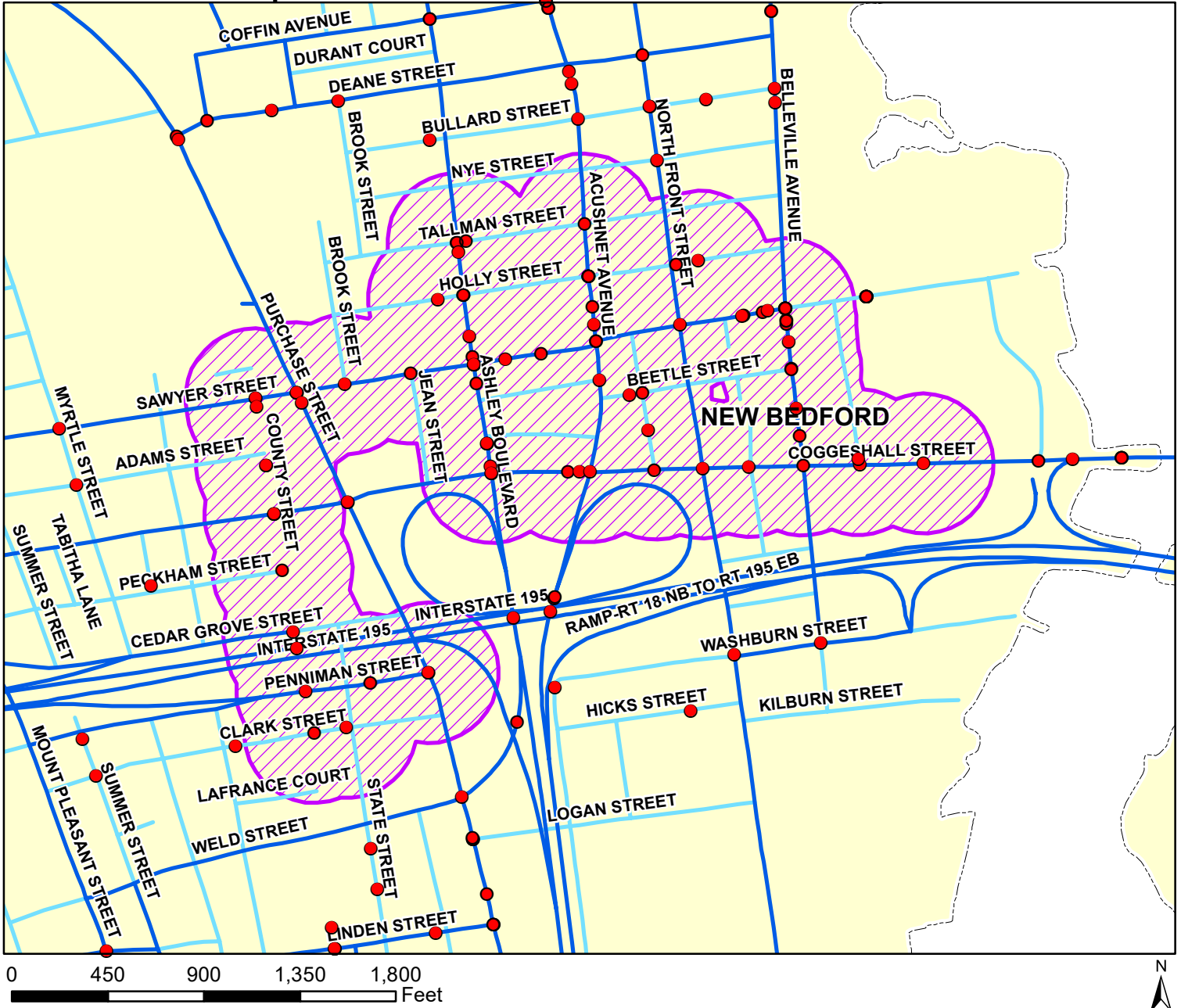
Number of Non-Injury Crashes: 47

Total Crashes: 135

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
8

NEW BEDFORD

MassDOT District: 5

RPA: SRPEDD

EPDO: 1637

Number of Fatal and Injury Crashes: 77

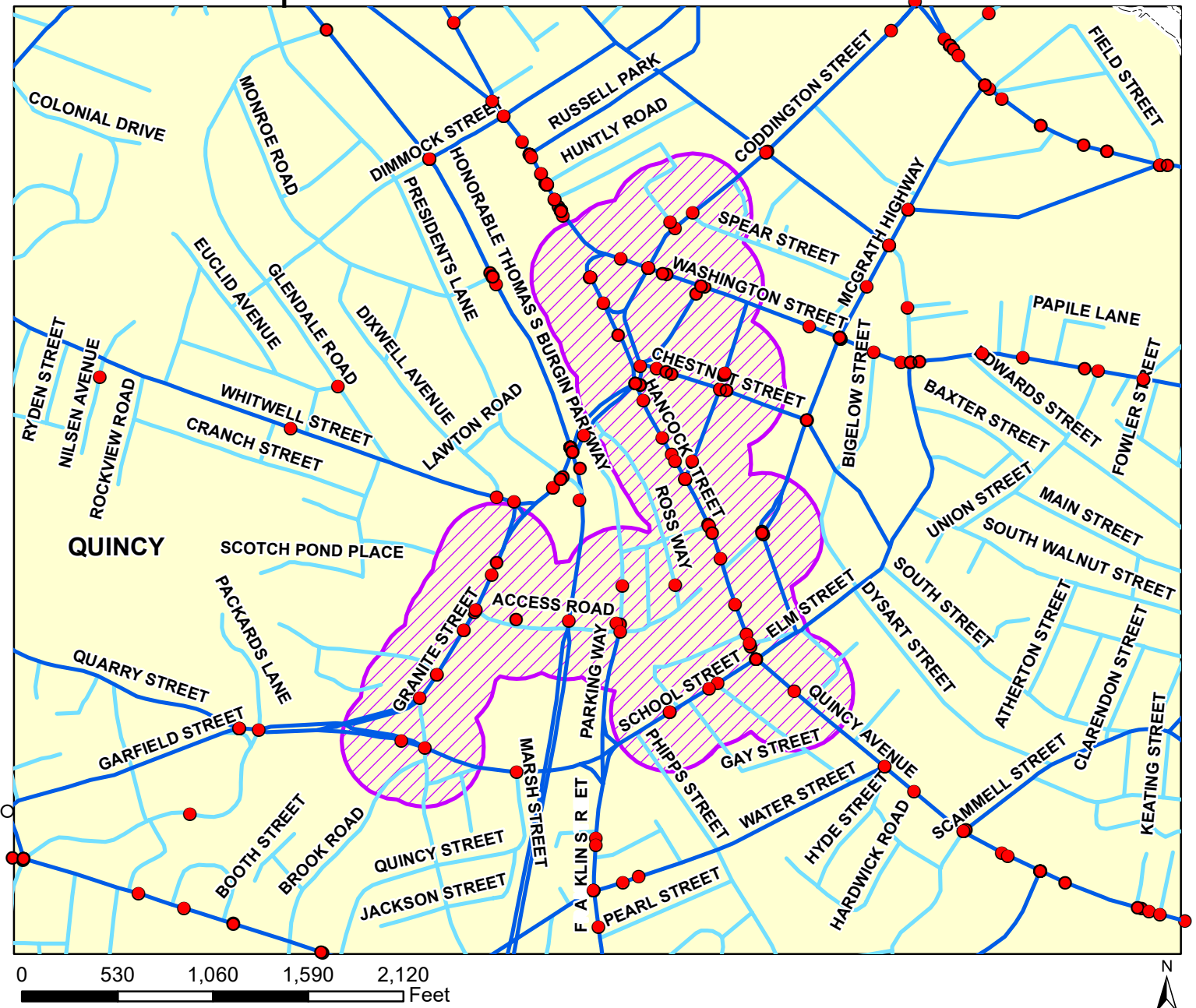
Number of Non-Injury Crashes: 20

Total Crashes: 97

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
9

QUINCY

MassDOT District: 6

RPA: MAPC

EPDO: 1549

Number of Fatal and Injury Crashes: 73

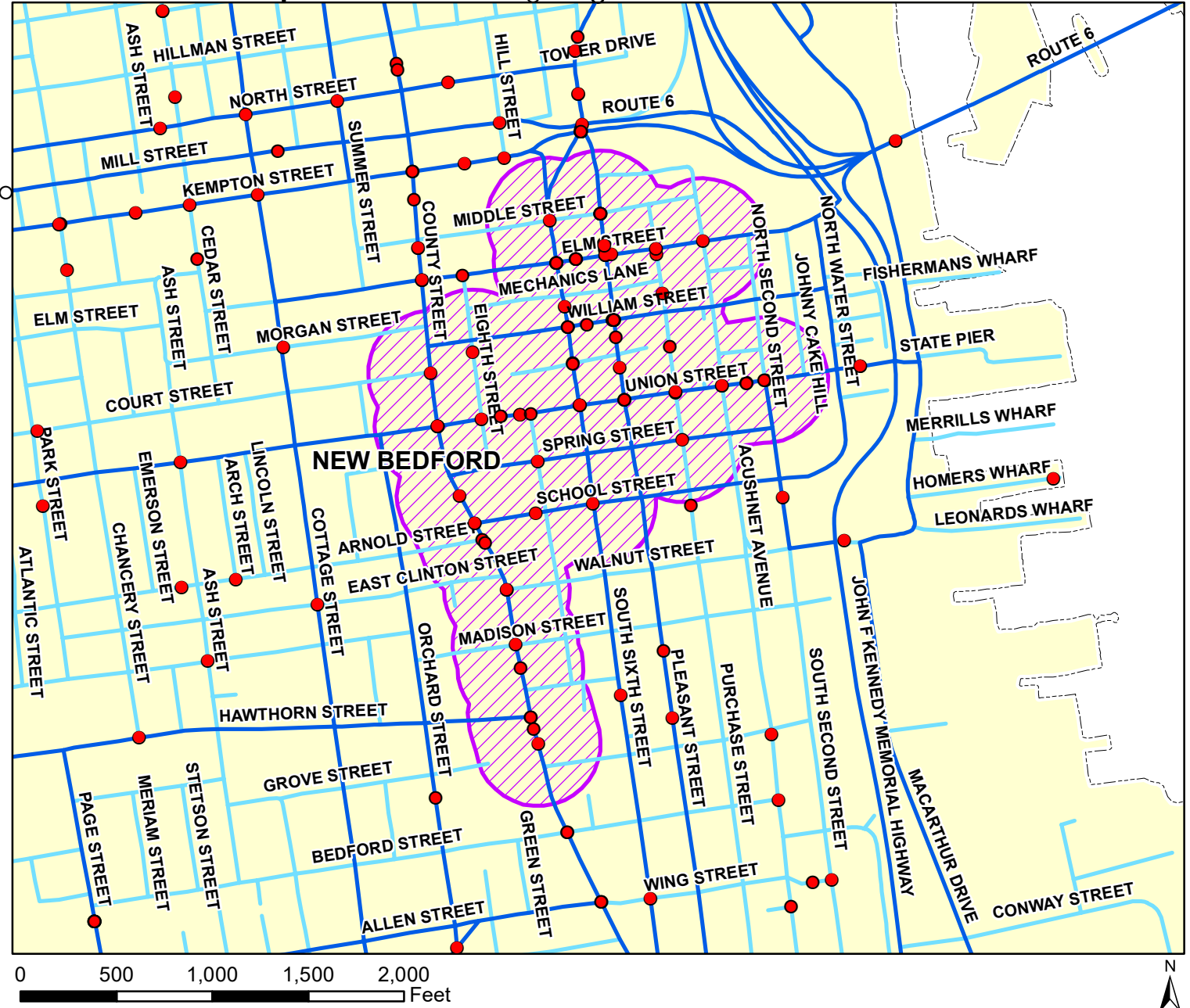
Number of Non-Injury Crashes: 16

Total Crashes: 89

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Pedestrian Crash Cluster 2008 - 2017



RANK
10

NEW BEDFORD

MassDOT District: 5

RPA: SRPEDD

EPDO: 1467

Number of Fatal and Injury Crashes: 69

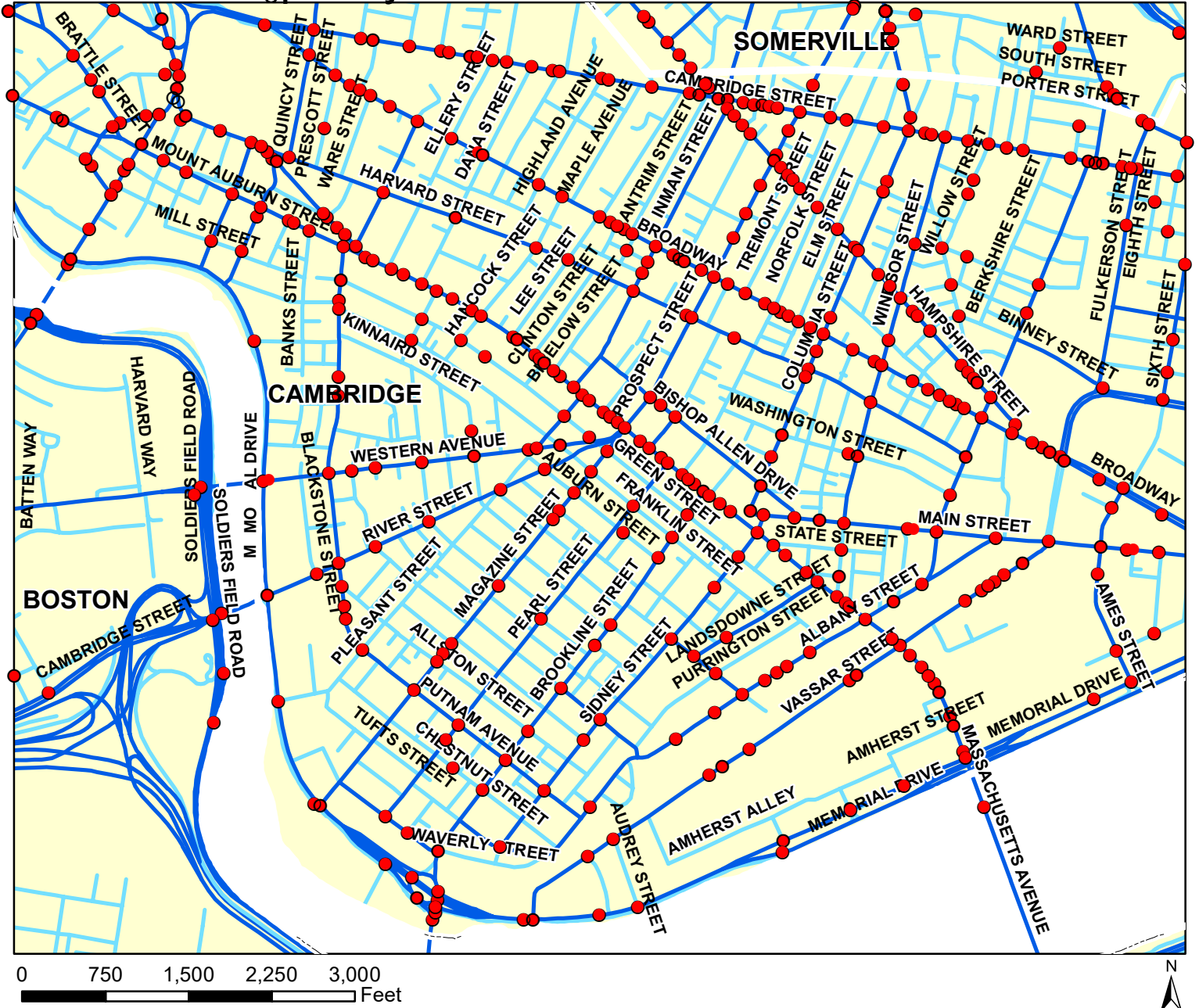
Number of Non-Injury Crashes: 18

Total Crashes: 87

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK 1

CAMBRIDGE

MassDOT District: 6

RPA: Metropolitan Area Planning Council

EPDO: 4706

Number of Fatal and Injury Crashes: 217

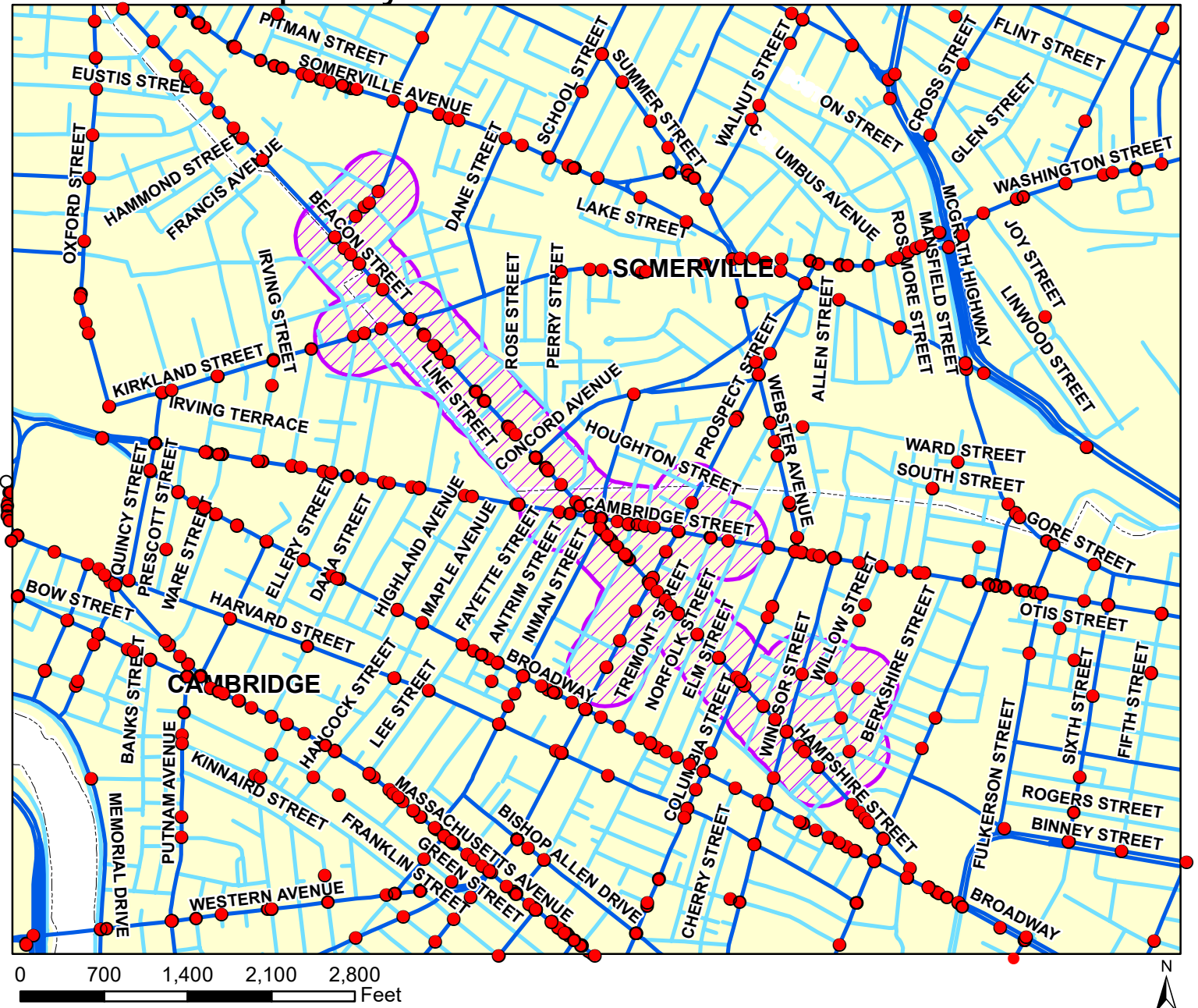
Number of Non-Injury Crashes: 149

Total Crashes: 366

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
2

CAMBRIDGE, SOMERVILLE

MassDOT District: 6,4

RPA: Metropolitan Area Planning Council

EPDO: 3083

Number of Fatal and Injury Crashes: 143

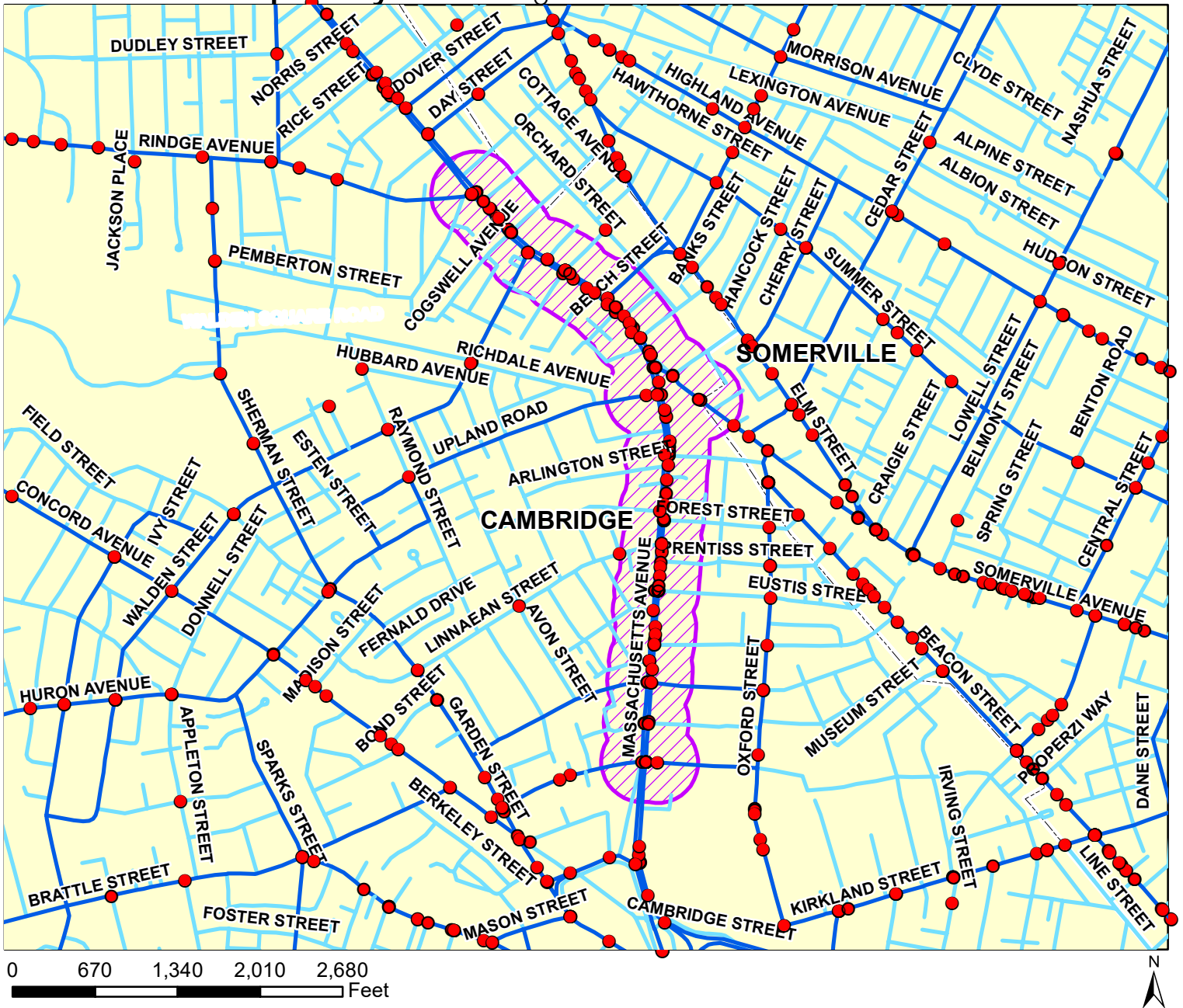
Number of Non-Injury Crashes: 80

Total Crashes: 223

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
3

CAMBRIDGE, SOMERVILLE

MassDOT District: 6,4

RPA: Metropolitan Area Planning Council

EPDO: 2210

Number of Fatal and Injury Crashes: 102

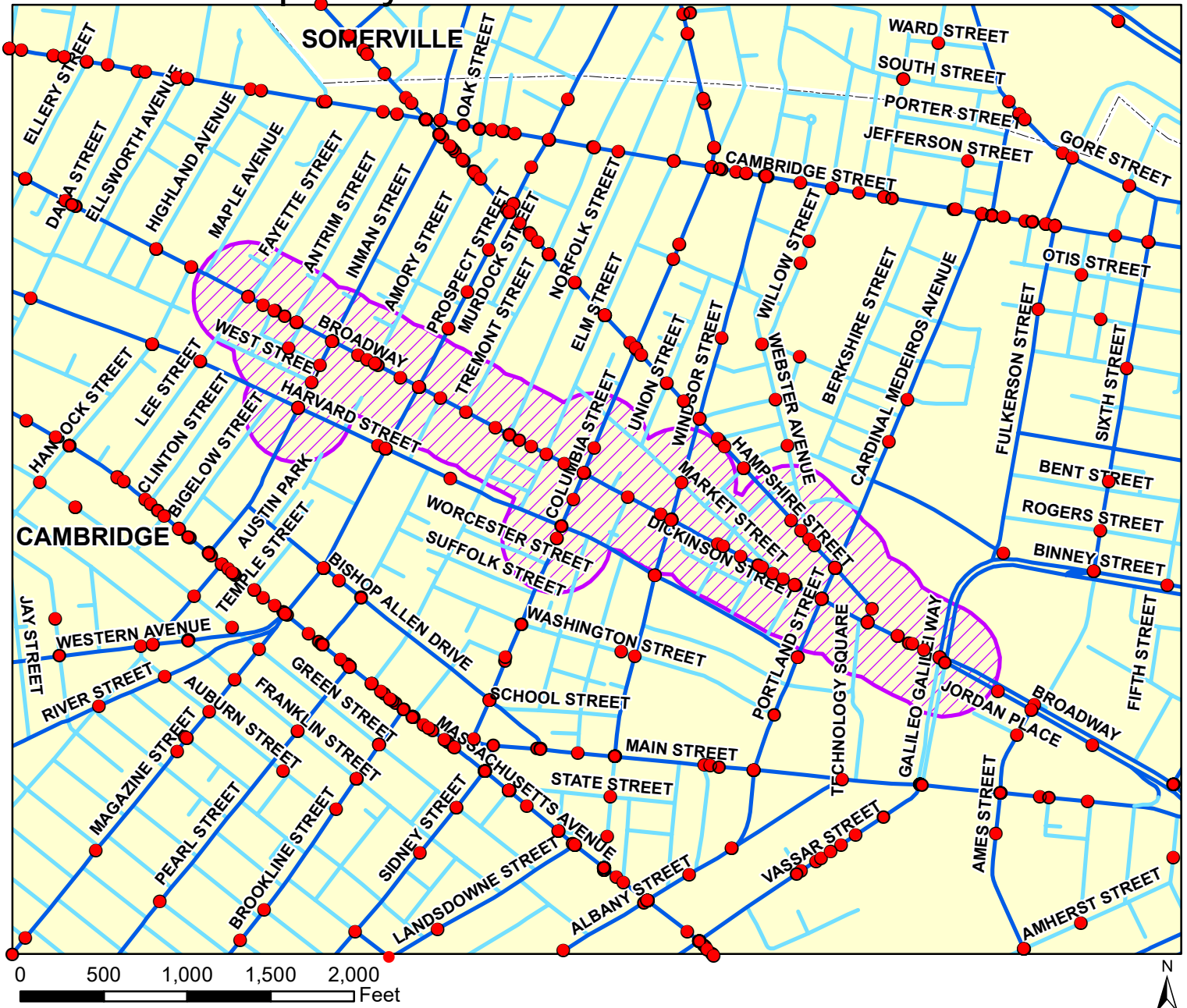
Number of Non-Injury Crashes: 68

Total Crashes: 170

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
4

CAMBRIDGE

MassDOT District: 6

RPA: Metropolitan Area Planning Council

EPDO: 1696

Number of Fatal and Injury Crashes: 78

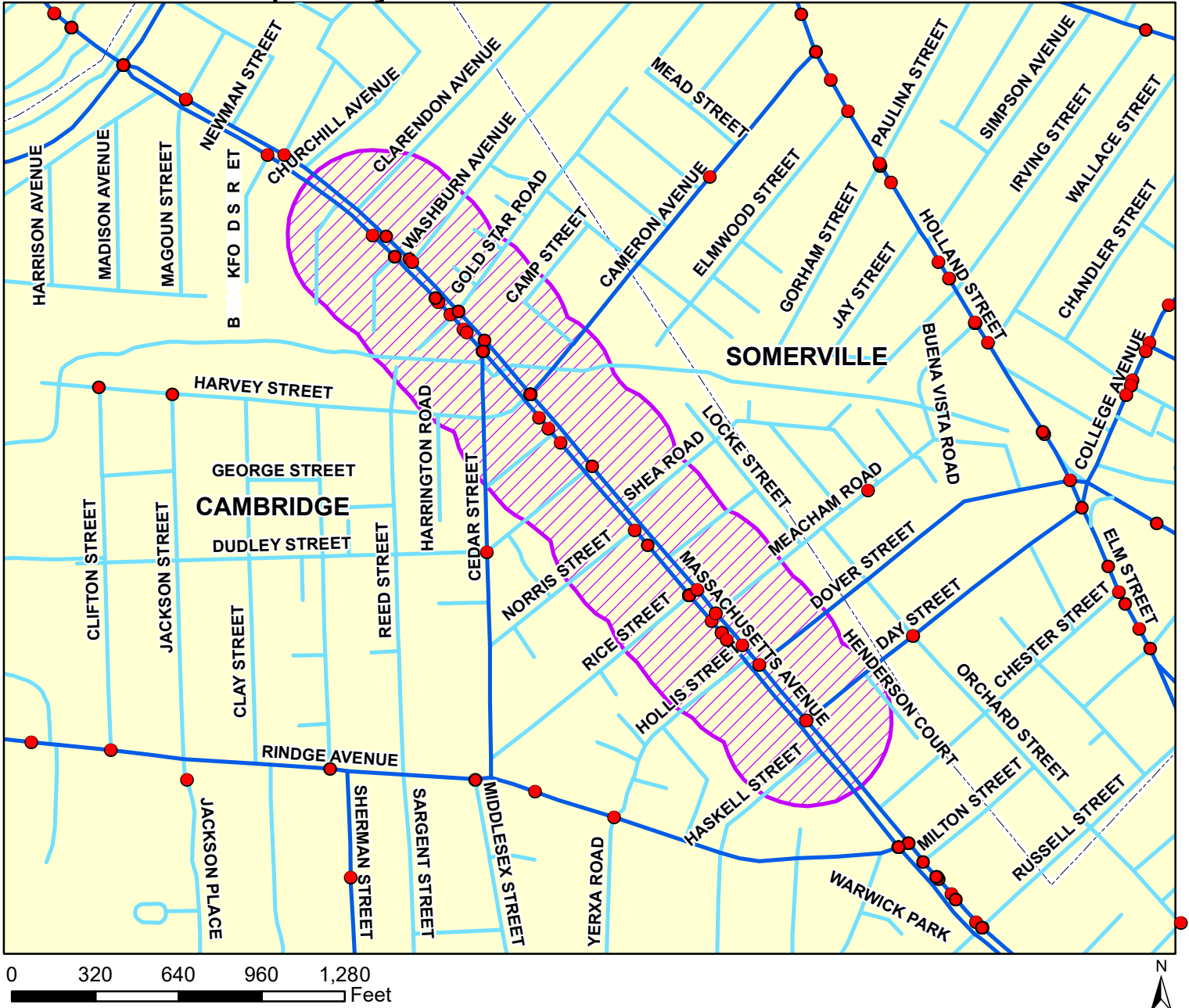
Number of Non-Injury Crashes: 58

Total Crashes: 136

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
6

CAMBRIDGE

MassDOT District: 6

RPA: Metropolitan Area Planning Council

EPDO: 733

Number of Fatal and Injury Crashes: 34

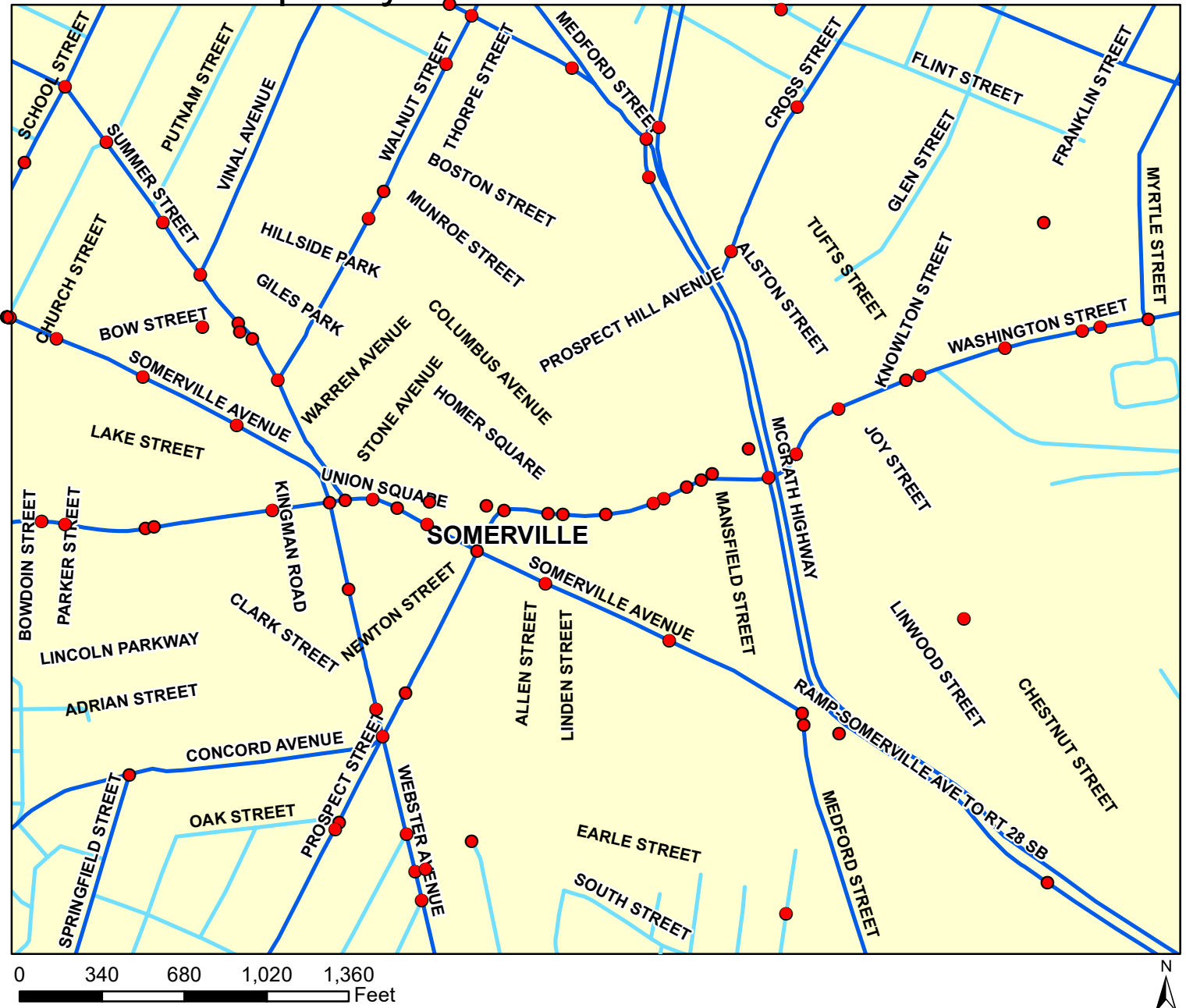
Number of Non-Injury Crashes:

Total Crashes: 53

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
7

SOMERVILLE

MassDOT District: 4

RPA: Metropolitan Area Planning Council

EPDO: 685

Number of Fatal and Injury Crashes: 32

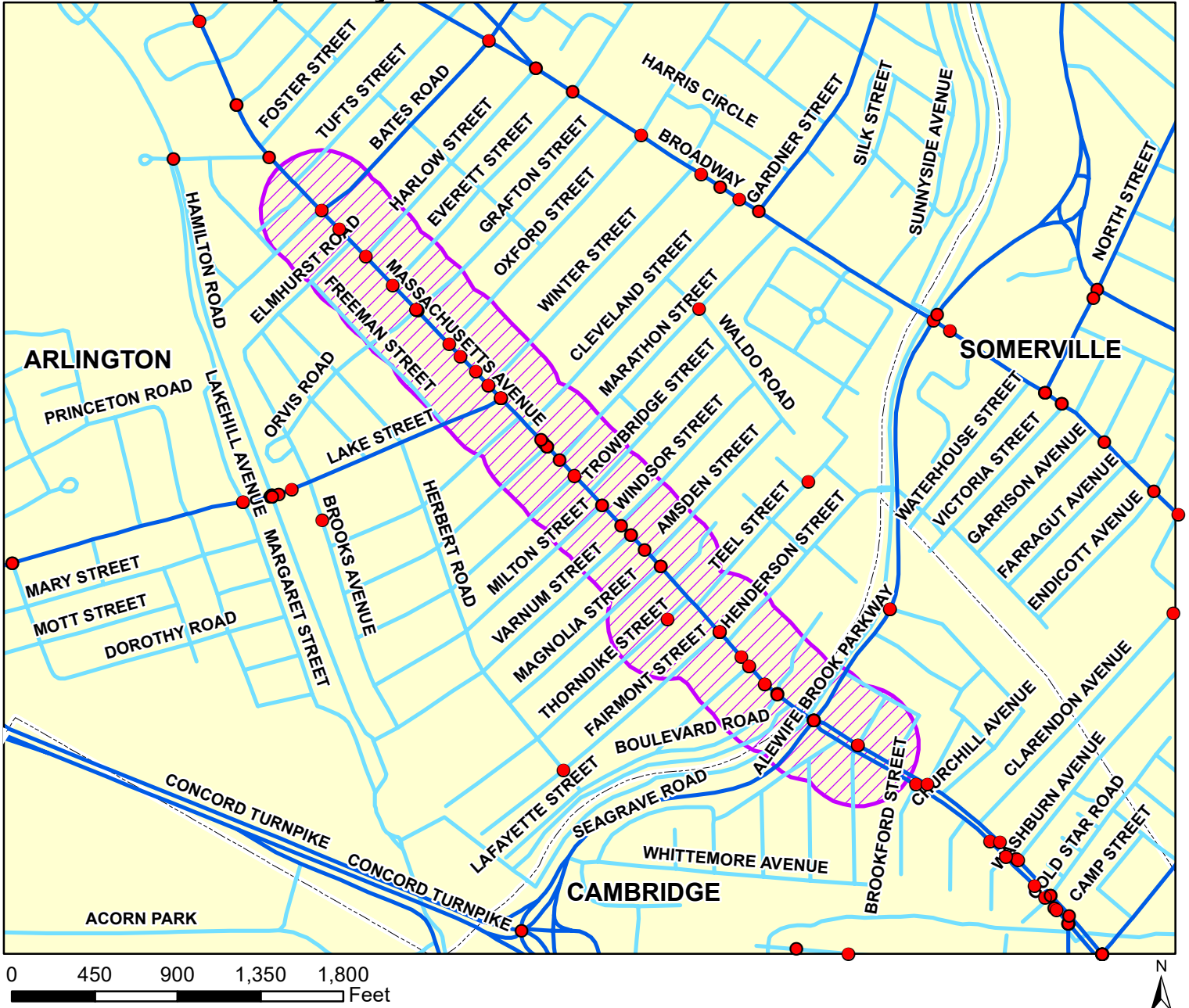
Number of Non-Injury Crashes: 13

Total Crashes: 45

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
8

ARLINGTON, CAMBRIDGE

MassDOT District: 4,6

RPA: Metropolitan Area Planning Council

EPDO: 658

Number of Fatal and Injury Crashes: 30

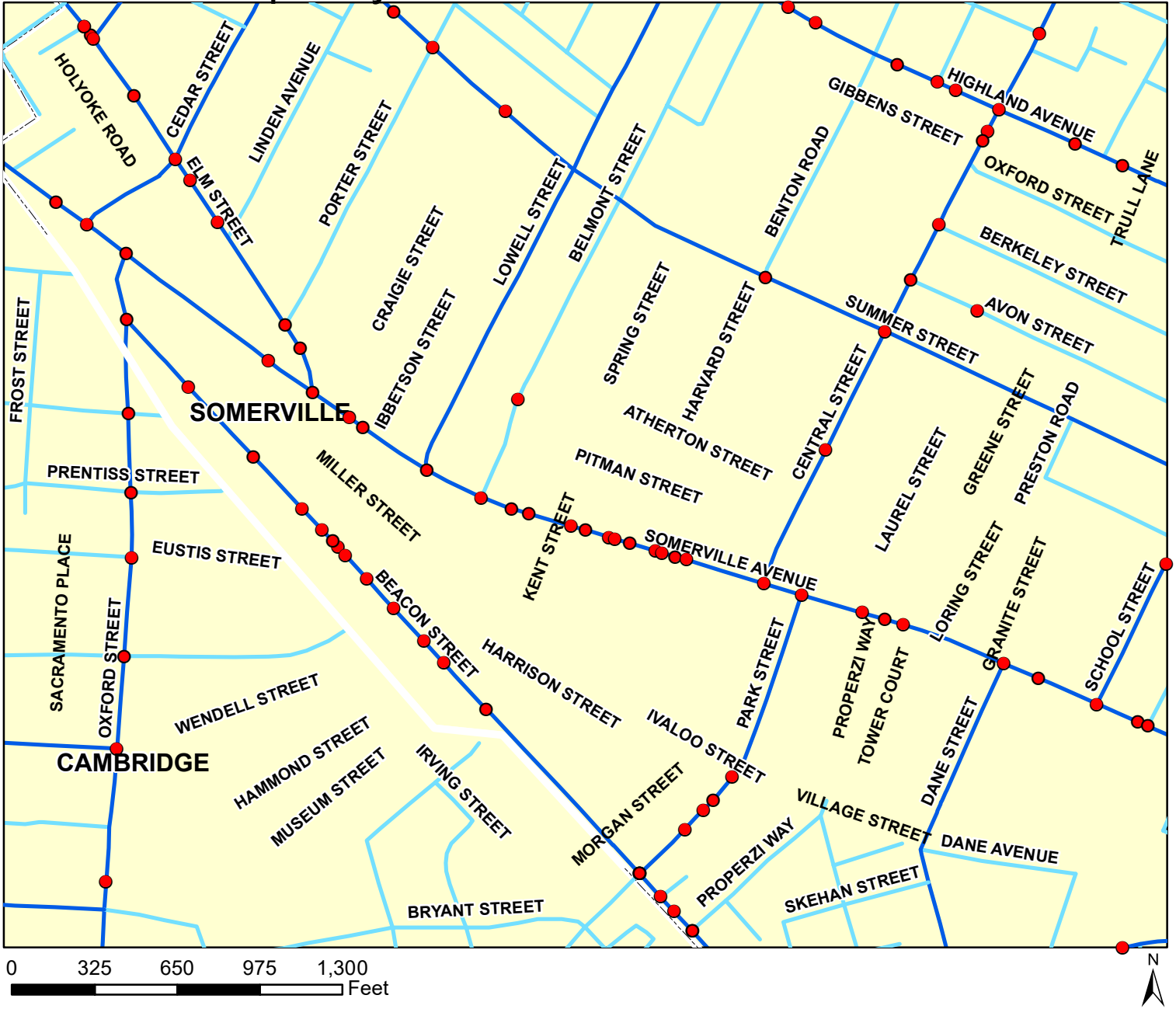
Number of Non-Injury Crashes:

Total Crashes: 58

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
9

SOMERVILLE

MassDOT District: 4

RPA: Metropolitan Area Planning Council

EPDO: 584

Number of Fatal and Injury Crashes: 27

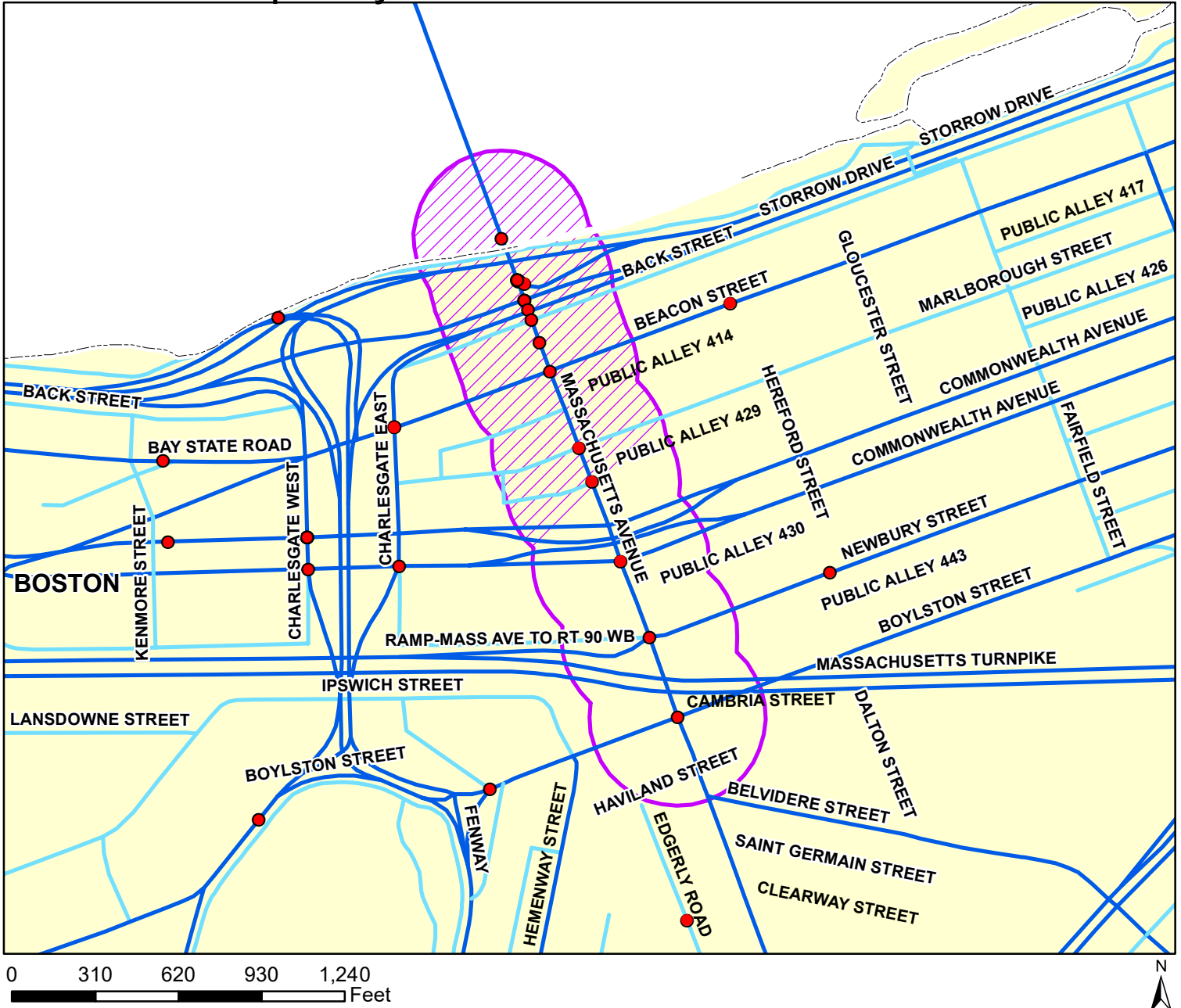
Number of Non-Injury Crashes: 17

Total Crashes: 44

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

Top Bicycle Crash Cluster 2008 - 2017



RANK
10

BOSTON

MassDOT District: 6

RPA: Metropolitan Area Planning Council

EPDO: 561

Number of Fatal and Injury Crashes: 26

Number of Non-Injury Crashes: 15

Total Crashes: 41

Legend

- Crash Locations 2008-2017
- All Functional Classification Except Local Roads
- Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary